Amendments to the Claims:

This listing of claims will replace all prior versions, and listing of claims in the Application:

Listing of Claims:

1. (currently amended) A method for use in apparatus of a communications system, the method comprising the steps of:

decoding block encoded data for removing the block encoding from the data, wherein the data represents, at least, a control frame type or a data frame type;

mapping the data into a variable length protocol data unit (PDU) for transmission over a synchronous transport medium.

- 2. (original) The method of claim 1 wherein the PDU comprises a header portion and a payload portion and includes a type field representing whether the data represents a data frame or a control frame.
- 3. (original) The method of claim 1 wherein the transport medium is bit/byte synchronous.
- 4. (original) The method of claim 1 wherein the transport medium is a synchronous optical network (SONET).

- 5. (original) The method of claim 1 wherein the mapping step maps the data into a simplified data link (SDL) PDU.
- 6. (original) The method of claim 1 wherein the decoding step further comprises the steps of:

receiving a fibre channel (FC) signal representing the block encoded data; and

decoding the FC signal for removing the block encoding from the data.

7. (original) The method of claim 1 wherein the decoding step further comprises the steps of:

receiving an enterprise systems connection (ESCON) signal representing the block encoded data; and

decoding the ESCON signal for removing the block encoding from the data.

- 8. (original) A method for use in communications apparatus, the method comprising the steps of:
 - (a) receiving a signal representing block encoded data;
- (b) decoding the receiving signal for removing the block encoding from the data;
- (c) determining whether the data represents, at least, a control frame type or a data frame type;
- (d) comparing the determined type to a type of previous data, which represents at least one previously decoded block of data;

- (e) if the determined type is different from the type of previous data, formulating the previous data into a variable length payload data unit (PDU) for transmission over a synchronous transport medium; and
- (f) if the determined type is not different from the type of previous data, storing the data in a buffer.
- 9. (original) The method of claim 8 wherein step (f) includes the steps of:

determining if the buffer is full; and

if the buffer is full, formulating the buffered data into a variable length PDU for transmission over the synchronous transport medium.

10. (original) A method for use in apparatus of a communications system, the method comprising the steps of:

receiving a signal from a synchronous transport medium, wherein the signal represents information conveyed in a variable length protocol data unit (PDU);

decoding the PDU by examining a type field of the PDU, wherein the type field indicates whether data in a payload portion of the PDU represents either a data frame or a control frame; and

block encoding the data for transmission.

- 11. (original) The method of claim 10 wherein the transport medium is bit/byte synchronous.
- 12. (original) The method of claim 10 wherein the transport medium is a synchronous optical network (SONET).

- 13. (original) The method of claim 10 wherein the block encoding step further comprises the step of forming a fibre channel (FC) signal representing the block encoded data.
- 14. (original) The method of claim 10 wherein the block encoding step further comprises the step of forming an enterprise systems connection (ESCON) signal representing the block encoded data.
- 15. (currently amended) Apparatus for use in a communications system, the apparatus comprising:
- a decoder operative on block-encoded data for removing the block encoding from the data, wherein the data represents, at least, a control frame type and a data frame type; and
- a mapper for mapping the data into a variable length protocol data unit (PDU) for transmission over a synchronous transport medium.
- 16. (original) The apparatus of claim 15 wherein the PDU comprises a header portion and a payload portion and includes a type field representing whether the data represents a data frame or a control frame.
- 17. (original) The apparatus of claim 15 wherein the transport medium is bit/byte synchronous.

- 18. (original) The apparatus of claim 15 wherein the transport medium is a synchronous optical network (SONET).
- 19. (original) The apparatus of claim 15 wherein the mapper maps the data into a simplified data link (SDL) PDU.
- 20. (original) The apparatus of claim 15 wherein the decoder is operative on a fibre channel (FC) signal representing the block encoded data, and decodes the FC signal for removing the block encoding from the data.

Claims 21-24 (canceled).

25. (previously presented) An apparatus for use in a communications system, the apparatus comprising:

means for producing a transmission frame representing data embodied in a signal conveyed over a synchronous transport medium, the transmission frame comprising:

- a variable length packet, the variable length packet comprising:
- a header, which includes at least a length field indicative of a length of the variable length packet;
- a type field representing a type of data conveyed in a payload portion of the packet, wherein the type is, at least, either a data frame or a control frame; and the payload portion for conveying the data.

- 26. (original) The apparatus of claim 25 wherein the header includes an error correction field.
- 27. (previously presented) An apparatus for use in a communications system, the apparatus comprising:

means for producing a transmission frame representing data embodied in a signal conveyed over a synchronous transport medium, the transmission frame comprising:

a variable length packet, the variable length packet comprising:

a header, which includes at least a length field indicative of a length of the variable length packet;

a type field representing a type of data conveyed in a payload portion of the packet, wherein the type is, at least, either a fibre channel (FC) data frame or an FC control frame; and

the payload portion for conveying the data.

28. (previously presented) An apparatus for use in a communications system, the apparatus comprising:

means for producing a transmission frame representing data embodied in a signal conveyed over a synchronous transport medium, the transmission frame comprising:

a variable length packet, the variable length packet comprising:

a header, which includes at least a length field indicative of a length of the variable length packet;

a type field representing a type of data conveyed in a payload portion of the packet, wherein the type is, at least, either an enterprise systems connection (ESCON) data frame or an ESCON control frame; and

the payload portion for conveying the data.